

CLAIMS:

1. Method of detection of a content property in a data stream on basis of low-level features, the method comprising:
 - determining a behavior feature from a sequence of the low-level features;
 - determining to which cluster from a set of predetermined clusters of behavior features within a behavior feature space the determined behavior feature belongs;
 - 5 - determining a confidence level of a content property presence on basis of the determined behavior feature and the determined cluster; and
 - detecting the content property on basis of the determined confidence level of the content property presence.
- 10 2. Method of detection of a content property as claimed in claim 1, wherein the data stream corresponds to a series of video images.
3. Method of detection of a content property as claimed in claim 1, wherein the
15 determined behavior feature comprises a first mean of values of a first one of the low-level features in the sequence.
4. Method of detection of a content property as claimed in claim 3, wherein the
20 determined behavior feature comprises a second mean of values of a second one of the low-level features in the sequence.
5. Method of detection of a content property as claimed in claim 1, wherein the confidence level of the content property presence is determined on basis of a model of the determined cluster of behavior features.
- 25 6. Method of detection of a content property as claimed in claim 5, wherein the model of the determined cluster of behavior features is a linear model.

7. Method of detection of a content property as claimed in claim 1, wherein the confidence level of the content property presence is determined with a neural network.

8. Method of detection of a content property as claimed in claim 1, wherein
5 detecting the content property is done by comparing the confidence level of the content property presence with a predetermined threshold.

9. Method of detection of a content property as claimed in claim 1, further
10 comprising outlier filtering by means of comparing the confidence level of the content property presence with a further confidence level corresponding to a further behavior feature.

10. Method of detection of a content property as claimed in claim 2, further
comprising determining which of the video images corresponds to a part of the series of
video images having the content property.

15

11. Method of detection of a content property as claimed in claim 1, wherein data
from an EPG is applied for the detection of the content property.

12. Method of detection of a content property as claimed in claim 1, further
20 comprising:

- determining to which further cluster from the set of predetermined clusters of
behavior features within the behavior feature space (300) the determined behavior feature
belongs;
- determining a further confidence level of a further content property presence
25 on basis of the determined behavior feature and the further determined cluster; and
- detecting a further content property on basis of the further determined
confidence level of the further content property presence.

13. A unit for detecting a content property in a data stream on basis of low-level
30 features, the unit comprising:
- first determining means for determining a behavior feature from a sequence
of the low-level features;

- second determining means for determining to which cluster from a set of predetermined clusters of behavior features within a behavior feature space the determined behavior feature belongs;

5 - third determining means for determining a confidence level of a content property presence on basis of the determined behavior feature and the determined cluster; and

- detecting means for detecting the content property on basis of the determined confidence level of the content property presence.

14. An image processing apparatus comprising:

10 - receiving means for receiving a data stream representing a sequence of video images;

- a unit for detecting a content property in the sequence of video images on basis of low-level features as claimed in claim 13; and

15 - an image processing unit being controlled by the unit for detecting a content property on basis of the content property.

15. An image processing apparatus as claimed in claim 13, wherein the image processing unit comprises a storage device.

20 16. An image processing apparatus as claimed in claim 13, wherein the image processing unit comprises a video image compression device.

17. An audio processing apparatus comprising:

25 - receiving means for receiving a data stream representing audio;
- a unit for detecting a content property in the audio on basis of low-level features as claimed in claim 13; and

- an audio processing unit being controlled by the unit for detecting a content property, on basis of the content property.